

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P296458

Luminaire Tested: **22RLN-LD5-20-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-20-UNV-L93050-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1705.0 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

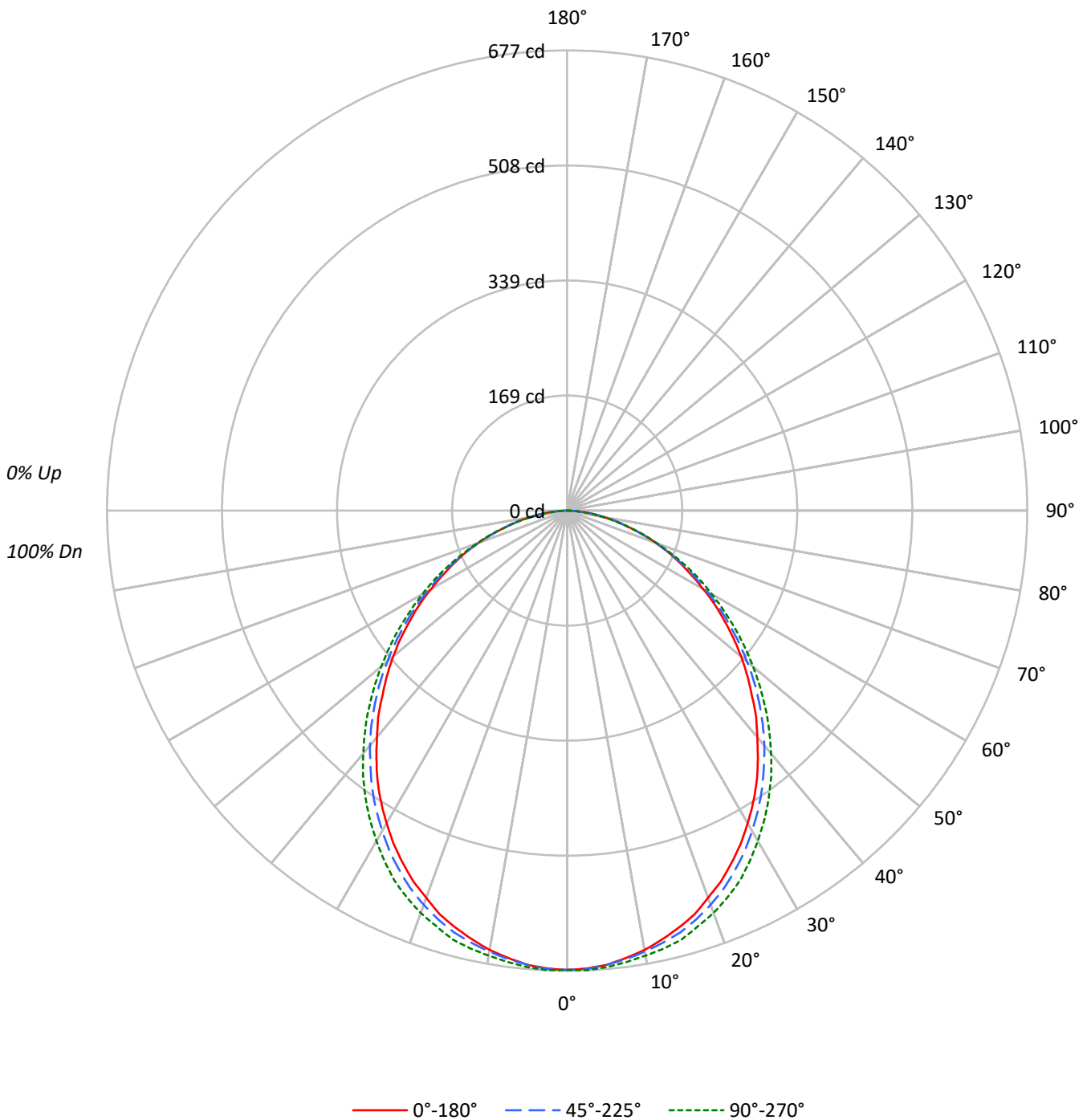
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1819	1819	1819
5°	1812	1812	1821
10°	1793	1800	1817
15°	1769	1791	1819
20°	1736	1767	1804
25°	1699	1734	1784
30°	1651	1691	1743
35°	1598	1642	1698
40°	1529	1586	1639
45°	1462	1520	1572
50°	1399	1445	1495
55°	1324	1364	1412
60°	1244	1277	1322
65°	1169	1191	1229
70°	1090	1090	1110
75°	972	972	972
80°	857	831	831
85°	682	658	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	3.7
10°-20°	181.2	10.6
20°-30°	269.2	15.8
30°-40°	312.4	18.3
40°-50°	307.6	18.0
50°-60°	260.3	15.3
60°-70°	185.7	10.9
70°-80°	99.8	5.9
80°-90°	25.2	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	514.1	30.2
0°-40°	826.5	48.5
0°-60°	1394.4	81.8
0°-90°	1705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1705.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	676	676	676	676	676	
5°	671	671	671	673	674	64
15°	635	637	643	649	653	179
25°	572	574	584	595	601	263
35°	486	487	500	512	517	303
45°	384	387	400	409	413	297
55°	282	283	291	298	301	253
65°	184	184	187	190	193	182
75°	94	93	94	94	94	100
85°	22	21	21	20	20	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	675.8	675.8	675.8	675.8	675.8
2.5°	674.1	674.1	675.0	675.8	676.7
5°	670.7	670.7	670.7	673.3	674.1
7.5°	663.9	664.8	665.6	668.2	669.9
10°	656.3	657.1	658.8	663.1	664.8
12.5°	646.1	648.6	651.2	657.1	659.7
15°	635.0	636.7	642.7	648.6	652.9
17.5°	623.1	624.0	630.8	639.3	641.0
20°	606.1	608.7	617.2	625.7	629.9
22.5°	590.8	592.5	601.9	612.9	616.3
25°	572.1	573.8	584.0	595.1	601.0
27.5°	552.6	554.3	565.3	577.2	581.5
30°	531.3	533.0	544.1	556.8	561.1
32.5°	509.2	510.9	522.8	533.9	539.8
35°	486.3	487.1	499.9	511.8	516.9
37.5°	460.8	463.3	475.2	487.1	493.1
40°	435.2	437.8	451.4	462.5	466.7
42.5°	411.4	414.8	425.9	436.1	440.3
45°	384.2	386.8	399.5	408.9	413.1
47.5°	359.6	362.1	373.2	382.5	385.1
50°	334.1	335.8	345.1	353.6	357.0
52.5°	308.6	309.4	317.9	326.4	329.0
55°	282.2	283.1	290.7	298.4	300.9
57.5°	257.6	257.6	264.4	270.3	272.9
60°	231.2	231.2	237.2	243.1	245.7
62.5°	206.6	206.6	212.5	216.8	220.2
65°	183.6	183.6	187.0	190.4	193.0
67.5°	161.5	159.0	162.4	166.6	165.8
70°	138.6	136.0	138.6	140.3	141.1
72.5°	115.6	113.9	115.6	116.5	118.2
75°	93.5	92.7	93.5	93.5	93.5
77.5°	74.8	72.3	74.0	73.1	72.3
80°	55.3	54.4	53.6	52.7	53.6
82.5°	38.3	37.4	37.4	35.7	35.7
85°	22.1	21.3	21.3	19.6	19.6
87.5°	8.5	8.5	7.7	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)